

IN THE CLAIMS:

Please amend the claims as follows:

1. (Previously Presented) A coating device with a rotary atomizer mounted on a coating machine, with a turbine motor of the rotary atomizer driven by a fluid stream, with a shaft of the rotating atomizer driven by the turbine motor and being supported by a bearing unit, with an inlet path through which the fluid stream is supplied under pressure to a turbine wheel of the turbine motor, and with an outlet path through which the fluid stream at a lower-pressure evacuates from the bearing unit, the device comprising:

a heating device for heating one of the fluid stream flowing through the turbine wheel, the inlet path, and the outlet path including a heat exchanger positioned along both the inlet path and the outlet path.

2. (Cancelled)

3. (Previously Presented) The coating device according to claim 1 wherein the heating device is located outside of the rotary atomizer.

4. (Cancelled)

5. (Previously Presented) The coating device according to claim 1 wherein the bearing unit includes channels separate from the inlet and outlet paths with a medium heated by the heating device flowing through said channels.

6. (Previously Presented) The coating device according to claim 1 further comprising:

at least one temperature sensor.

7. (Cancelled)

8. (Cancelled)

9. (Cancelled)

10. (Cancelled)
11. (Cancelled)
12. (Cancelled)
13. (Cancelled)
14. (Previously Presented) A coating device comprising:
 - a turbine including an inlet for receiving a first fluid stream and an outlet for evacuating the first fluid stream and a rotatable shaft;
 - a bearing supporting the shaft of the turbine in rotation;
 - a rotary atomizer connected to the shaft and positioned externally with respect to the housing adjacent the second end and including a bell-shaped plate;
 - at least one steering passage for communicating a second fluid stream towards the bell-shaped plate; and
 - a heater for heating the first fluid stream positioned downstream of the outlet.
15. (Previously Presented) The coating device of claim 14 wherein the heater heats the first fluid stream and is positioned upstream of the inlet.
16. (Cancelled)
17. (Previously Presented) The coating device of claim 14 wherein the heater heats the first fluid stream upstream of the inlet and downstream of the outlet.
18. (Previously Presented) The coating device of claim 14 wherein the heater heats the bearing.
19. (Previously Presented) The coating device of claim 18 wherein the bearing is an air bearing and the heater heats an air stream passing through the bearing.
20. (Cancelled)
21. (Cancelled)

22. (Previously Presented) A coating device comprising:

- a turbine including an inlet for receiving a first fluid stream and an outlet for evacuating the first fluid stream and a rotatable shaft;
- a bearing supporting the shaft of the turbine in rotation;
- a rotary atomizer connected to the shaft and positioned externally with respect to the housing adjacent the second end and including a bell-shaped plate;
- at least one steering passage for communicating a second fluid stream toward the bell-shaped plate; and
- a heater for heating the first fluid stream upstream of the inlet and downstream of the outlet.

23. (Previously Presented) A rotary atomizer for applying a coating, comprising:

- a turbine motor, a shaft driven by said turbine motor supported by a bearing unit, a rotating bell-shaped plate supported on said shaft receiving coating from said rotary atomizer, a fluid passage extending through said rotary atomizer receiving fluid under pressure and driving said turbine motor, said fluid passage having an outlet directing fluid toward said rotary bell-shaped plate, thereby shaping a coating sprayed by said rotating bell-shaped plate, and a heater heating fluid received through said fluid passage, thereby heating fluid driving said turbine motor and fluid directed toward said bell-shaped plate, thereby reducing water condensation of fluid received through said fluid passage.

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24. (Previously Presented) A rotary atomizer for applying a coating, comprising:
a turbine motor, a shaft driven by said turbine motor supported by a bearing unit, a rotating bell-shaped plate supported on said shaft receiving coating from said rotary atomizer, a fluid passage extending through said rotary atomizer around said bearing unit and having an outlet directing fluid toward said rotating bell-shaped plate, thereby shaping a coating sprayed by said rotating bell-shaped plate, and a heater heating fluid received through said fluid passage, thereby heating fluid received around said bearing unit and fluid directed toward said rotating bell-shaped plate, thereby reducing water condensation of fluid received through said fluid passage.

25. (Currently Amended) A rotary atomizer for applying a coating, comprising:
a turbine motor supported by a bearing unit driven by a fluid stream, a shaft of said rotary atomizer driven by said turbine motor, an inlet path through which said fluid stream is supplied under pressure to a turbine wheel of said turbine motor, and an outlet path through which said fluid stream evacuates said bearing unit at a lower pressure; and

a heating device for heating one of said fluid stream flowing through said turbine wheel, said inlet path and said outlet path, a temperature sensor connected to a temperature regulator regulating said heating device to maintain a temperature of one of said fluid stream, inlet path and outlet path to reduce water condensation and wherein said heating device heats said fluid stream upstream at said inlet path and downstream of said outlet path.